

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



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In re Application of

Tadashi Ishida, et al.

Group Art Unit: 1774

Application No. 10/522,416

Examiner: BETELHEM SHEWAREGED

Filed: January 26, 2005

For: INK JET RECORDING MEDIUM

The Honorable Commissioner of Patents and Trademarks  
United States Patent and Trademark Office  
Washington, D. C. 20231

Sir:

DECLARATION UNDER 37 CFR 1.132

I, Masaya KUSUMOTO, declare and state that:

1. In March, 1990, I was graduated from Hokkaido Asahikawa Technical High-School.

Since April, 1990, I have been an employee of MITSUI Chemicals, INC., and till the present time, I have been engaged in development work in emulsion for thermosensitive recording material and for ink jet recording material.

2. I am a co-inventor of the invention described in the specification of the above-identified application.

3. I explain the significance of color density values in Examples of the above-identified application below.

The color density value can be evaluated as follows.

○ (more than 1.90): Color density was high, and the printed image was clear;

△ (1.70-1.90): Color density was slightly low, and the printed image was blurred; and

× (less than 1.70): Color density was low and below a practical level.

The evaluation results of Examples and Comparative Examples based on the above criteria are shown in the following table.

Table

	Color density			
	Black		Cyan	
Example 1	2.05	○	1.98	○
Example 2	2.07	○	1.97	○
Comparative Example 1	2.05	○	1.98	○
Comparative Example 2	1.24	×	1.33	×
Comparative Example 3	Unmeasurable		Unmeasurable	
Comparative Example 4	1.88	△	1.82	△
Comparative Example 5	Unmeasurable		Unmeasurable	
Comparative Experiment A	1.78	△	1.72	△

4. From the results of the above experiment, by using the amphoteric polymeric organic particles having the average particle diameter of the range from 1 to 500 nm, there can be obtained an ink jet recording medium which is more excellent in color density.

The undersigned declares further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

Masaya Kusumoto  
Masaya KUSUMOTO

This 14th day of May, 2007